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APR 10 2005

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appl. No. : 10/749,096  
Applicant : Rafael Reif, et al.  
Filed : December 30, 2003  
T.C./A.U. : 2811  
Examiner : Douglas W. Owens

Confirmation No.: 3177

Docket No. : MIT-136DUS  
Customer No. : 022494

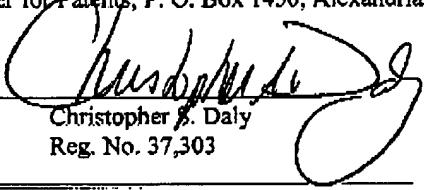
Certificate of Mailing (37 C.F.R. 1.8(a))

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8 Apr 05

Date of Signature  
and Mail Deposit

By:

  
Christopher A. Daly  
Reg. No. 37,303

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

It is desired to cite for the record in this application the enclosed documents listed on the attached copy of PTO form PTO/SB/08A (Formerly #1449). The paragraph(s) marked below are applicable to this Information Disclosure Statement.

[ ] (1) The enclosed Information Disclosure Statement is being filed: within three months of the filing date; or within three months of the entry of the national stage of the above-identified application; or before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114. Accordingly, Applicant(s) believes that no fee or statement is required.

Application No.:10/749,096

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(2) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by the fee set forth in 37 C.F.R. § 1.17(p).

SUBMISSION UNDER 37 C.F.R. § 1.97(c)

INCLUDING A STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

(3) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(c)

INCLUDING A STATEMENT UNDER 37 C.F.R. § 1.97(e)(2)

(4) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

Application No.:10/749,096

Attorney Docket No.: MIT-136DUS

SUBMISSION UNDER 37 C.F.R. § 1.97(c)INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[ ] (5) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d)INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(1)

[ ] (6) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the accompanying Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d)INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(2)

[ ] (7) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

Application No.:10/749,096

Attorney Docket No.: MIT-136DUS

SUBMISSION UNDER 37 C.F.R. § 1.97(d)INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[ ] (8) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy Rule 98(a) (3) even if in a foreign language, since the few terms of relevance therein are deemed of universal cognizance. However, Applicant(s) does not necessarily adopt the position reflected by that report.

Application No.:10/749,096

Attorney Docket No.: MIT-136DUS

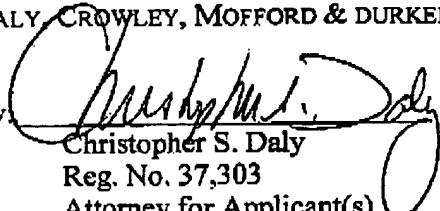
The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 500845.

Respectfully submitted,

Dated: 8 Apr 05

DALY CROWLEY, MOFFORD & DURKEE, LLP

By



Christopher S. Daly

Reg. No. 37,303

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PTO/SB/08A (02-03)

Approved for use through 04/30/2003. OMB 0651-0031  
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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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## Complete if Known

Application Number	10/749,096
Filing Date	December 30, 2003
First Named Inventor	Rafael Relf
Art Unit	2811
Examiner Name	Douglas W. Owens
Attorney Docket Number	MIT-136DUS

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,236,118	08/17/1993	Bower et al.	
		US- 5,270,281	12/14/1993	Bertin et al.	
		US- 5,370,301	12/06/1994	Belcher et al.	
		US- 5,391,257	02/21/1995	Sullivan et al.	
		US- 5,563,084	10/08/1996	Ramm et al.	
		US- 5,669,545	09/23/1997	Pham et al.	
		US- 5,985,693	11/16/1999	Leedy	
		US- 6,027,958	02/22/2000	Vu et al.	
		US- 2002/0135075	09/26/2002	Leedy	
		US- 6,465,892	10/15/2002	Suga	
		US- 2004/0124538	07/01/2004	Reif et al.	
		US- 2004/0219765	11/04/2004	Reif et al.	
		US- 2004/0126994	07/01/2004	Reif et al.	
		US- 2002/0074670	06/20/2002	Suga	
		US- 2002/0109236	08/15/2002	Kim et al.	
		US- 2002/0135062	09/26/2002	Mastromatteo et al.	
		US- 5,706,578	01/13/1998	Hubner	
		US- 5,767,009	01/16/1998	Yoshida et al.	
		US- 5,825,080	10/20/1998	Imacka et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)				
		EP 1 041 624 A1	10/04/2000	Interuniversitair Microelectronica Centrum VZW		
		DE 100 47 963 A1	03/29/2001	Sony Corp.		
		EP 1 432 032 A2	06/23/2004	Sei Semiconductor Energy Laboratory Co., LTD.		
		EP 1 151 962 A1	11/07/2001	STMicroelectronics S.r.l.		
		2 645 681	04/07/1989	Thomson-CSF		
		WO 02/09182 A1	01/31/2002	Christian Val		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 808. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08A (02-03)

FTC/OSB/JGA (02-03)  
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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 2 of 2

**Complete if Known**

Application Number	10/749,096
Filing Date	December 30, 2003
First Named Inventor	Rafael Reif
Art Unit	2811
Examiner Name	Douglas W. Owens
Parent Application Number	MIT-1360US

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Sheet 2 of 2

**U. S. PATENT DOCUMENTS**

**FOREIGN PATENT DOCUMENTS**

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

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Application Number	10/749,096
Filing Date	December 30, 2003
First Named Inventor	Rafael Reif
Art Unit	2811
Examiner Name	Douglas W. Owens
Attorney Docket Number	MIT-136DUS

**OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PCT/US 03/41559 International Search Report dated March 11, 2005	
		PCT/US 03/41557 International Search Report dated March 16, 2005	
		PCT/US 03/41407 International Search Report dated September 15, 2004	
		PCT/US 03/41514 International Search Report dated June 17, 2004	
		Y. HAYASHI, S WADA, K. KAJIYAMA, K. OYAMA, R. KOH, S. TAKAHASHI, T. KUNIO, Fabrication of Three-Dimensional IC Using "Cumulatively Bonded IC" (CUBIC) Technology, 1990, pp. 95-96, NEC Corporation, Shimokuzawa, Sagamihara, Kanagawa 22, Japan.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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